



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 191466

TO: James Rogers
Location: 4a10 / 4c70
Wednesday, June 14, 2006
Art Unit: 1618
Phone: 571-272-7838
Serial Number: 10 / 751009

From: Jan Delaval
Location: Biotech-Chem Library
Remsen 1a51
Phone: 571-272-2504

jan.delaval@uspto.gov

Search Notes

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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: James William Rogers Examiner #: 82037 Date: 5-31-06
Art Unit: 1618 Phone Number: 2-7838 Serial Number: 10/751,009
Location (Bldg/Room#): Ren 410A (Mailbox #): _____ Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: Bib data sheet provided

Inventors (please provide full names): _____

Earliest Priority Date: 12/31/02

Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Please search the circled polymer in
claim 53, polyethylene glycol connected to carbonyl $\text{C}(=\text{O})$
connected to 4-piperidone O=C1CCCCN1. If there are
no hits you can search without the carbonyl group $\text{C}(=\text{O})$ -

STAFF USE ONLY

Searcher: JanSearcher Phone #: 22504

Searcher Location: _____

Date Searcher Picked Up: 6/14/06Date Completed: 6/14/06Searcher Prep & Review Time: 10Online Time: +20

Type of Search

____ NA Sequence (#)

____ AA Sequence (#)

☒ Structure (#)

____ Bibliographic

____ Litigation

____ Fulltext

____ Other

Vendors and cost where applicable

☒ STN _____ Dialog

____ Questel/Orbit _____ Lexis/Nexis

____ Westlaw _____ WWW/Internet

____ In-house sequence systems

____ Commercial	____ Oligomer	____ Score/Length
____ Interference	____ SPDI	____ Encode/Transl
____ Other (specify)		

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:33:33 ON 14 JUN 2006
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STRUCTURE FILE UPDATES: 13 JUN 2006 HIGHEST RN 887650-39-7
DICTIONARY FILE UPDATES: 13 JUN 2006 HIGHEST RN 887650-39-7

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TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

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conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS
for details.

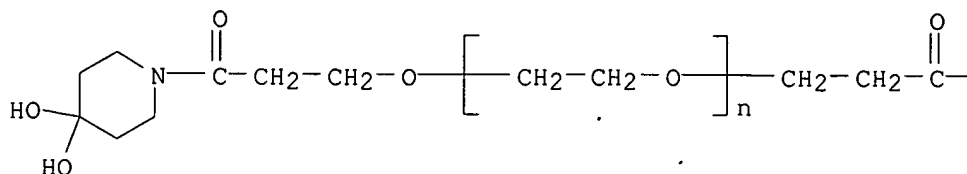
REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

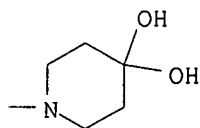
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L28 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
RN 724773-97-1 REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropoxy]- (9CI)
(CA INDEX NAME)
MF (C2 H4 O)_n C16 H28 N2 O7
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A



PAGE 1-B

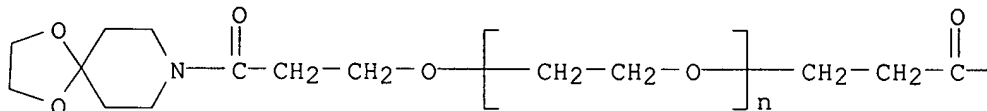


1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

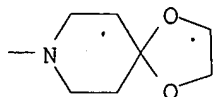
REFERENCE 1: 141:128868

L28 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
RN **724773-96-0** REGISTRY
ED Entered STN: 10 Aug 2004
CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxa-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -[3-(1,4-dioxa-8-azaspiro[4.5]dec-8-yl)-3-oxopropoxy]-(9CI) (CA INDEX NAME)
MF (C2 H4 O)_n C20 H32 N2 O7
CI PMS
PCT Polyether
SR CA
LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A



PAGE 1-B

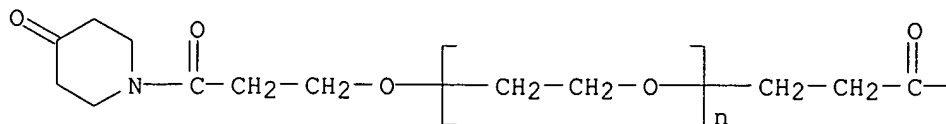


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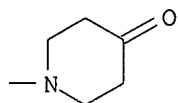
REFERENCE 1: 141:128868

L28 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724773-95-9 REGISTRY
 ED Entered STN: 10 Aug 2004
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 ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)
 MF (C2 H4 O)_n C16 H24 N2 O5
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

PAGE 1-A



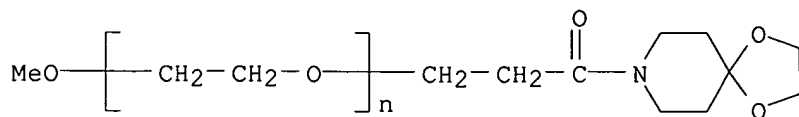
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1 REFERENCES IN FILE CA (1907 TO DATE)
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 RN 724773-94-8 REGISTRY
 ED Entered STN: 10 Aug 2004
 CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)
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 LC STN Files: CA, CAPLUS, USPATFULL

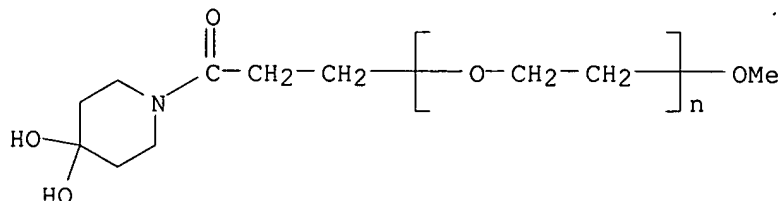


1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 141:128868

L28 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724773-70-0 REGISTRY
 ED Entered STN: 10 Aug 2004

CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)
 MF (C2 H4 O)_n C9 H17 N O4
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



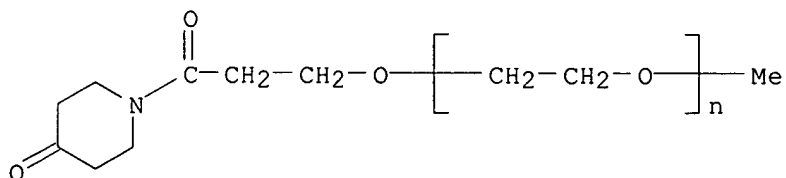
3 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:114270

REFERENCE 2: 141:248692

REFERENCE 3: 141:128868

L28 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 724773-69-7 REGISTRY
 ED Entered STN: 10 Aug 2004
 CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)
 DR 750635-89-3
 MF (C2 H4 O)_n C9 H15 N O3
 CI PMS
 PCT Polyether
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL



3 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 144:114270

REFERENCE 2: 141:248692

REFERENCE 3: 141:128868

=> fil hcaplus

FILE 'HCAPLUS' ENTERED AT 15:33:51 ON 14 JUN 2006

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FILE COVERS 1907 - 14 Jun 2006 VOL 144 ISS 25

FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d all hitstr tot 131

L31 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2006:29451 HCAPLUS

DN 144:114270

ED Entered STN: 12 Jan 2006

TI Polymer-Factor IX moiety conjugates

IN Bossard, Mary J.; Stephenson, Gayle

PA **Nektar Therapeutics Al, Corporation, USA**

SO PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DT Patent

LA English

CC 63-3 (Pharmaceuticals)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006005058	A2	20060112	WO 2005-US23745	20050630
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	US 2006052302	A1	20060309	US 2005-172459	20050630
PRAI	US 2004-584505P	P	20040630		
CLASS					

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2006005058	IPCI	A61K0047-48 [I,A]; A61P0007-04 [I,A]; A61P0007-00 [I,C*]
US 2006052302	IPCI	A61K0038-37 [I,A]; A61K0038-36 [I,C*]; C07K0014-755 [I,A]; C07K0014-435 [I,C*]
	NCL	514/012.000; 530/383.000
AB	<p>Conjugates of a Factor IX moiety and ≥ 1 water-soluble polymers of polyethylene glycol or its derivative are provided. Also provided are compns. comprising the conjugates, methods of making the conjugates, and methods of administering to a patient compns. comprising the conjugates. Thus, 4.1 mg α-[4-[(2,5-dioxo-1-pyrrolidinyl)oxy]-3-methyl-4-oxobutyl]-ω-methoxy-poly(oxy-1,2-ethanediyl) was dissolved in 1 mL 2 mM hydrochloric acid, added to an aliquot of the Factor IX stock solution containing 0.07 mg Factor IX to reach 1:1 mol ratio, stirred for 3 h at room temperature and for 15 h at 4° to give a conjugate.</p>	
ST	polymer Factor IX moiety conjugate; polyoxyalkylene succinimidyl deriv	
IT	Factor IX conjugate prepn	
IT	Hemophilia	
IT	(B; preparation of polymer-Factor IX moiety conjugates)	
IT	Blood	
IT	(derived, conjugates with water-soluble polymers; preparation of polymer-Factor IX moiety conjugates)	
IT	Polyoxyalkylenes, biological studies	
IT	<p>RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)</p> <p>(mono(alkyl group)-terminated, conjugates; preparation of polymer-Factor IX moiety conjugates)</p>	
IT	Polyamines	
IT	<p>RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)</p> <p>(polyethylene-, N-acyl, conjugates with Factor IX; preparation of polymer-Factor IX moiety conjugates)</p>	
IT	Hemophilia	
IT	Human	
IT	(preparation of polymer-Factor IX moiety conjugates)	
IT	Polymers, biological studies	
IT	<p>RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)</p> <p>(water-soluble, conjugates with Factor IX; preparation of polymer-Factor IX moiety conjugates)</p>	
IT	<p>9001-28-9DP, Factor IX, conjugates with polyoxyalkylene derivs.</p> <p>99126-64-4DP, conjugates with Factor IX 174569-25-6DP, conjugates with Factor IX 187848-51-7DP, conjugates with Factor IX 346702-34-9DP, conjugates with Factor IX 724773-69-7DP, conjugates with Factor IX 724773-70-ODP, conjugates with Factor IX 820247-07-2DP, conjugates with Factor IX 820247-09-4DP, conjugates with Factor IX</p> <p>RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)</p> <p>(preparation of polymer-Factor IX moiety conjugates)</p>	
IT	<p>9002-89-5D, Polyvinyl alcohol, conjugates with Factor IX 9003-39-8D, Polyvinyl pyrrolidone, conjugates with Factor IX 28902-82-1D, Polyacryloylmorpholine, conjugates with Factor IX 37316-87-3D, Factor IXa, conjugates with polyoxyalkylene derivs.</p> <p>RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)</p> <p>(preparation of polymer-Factor IX moiety conjugates)</p>	
IT	724773-69-7DP, conjugates with Factor IX 724773-70-ODP,	

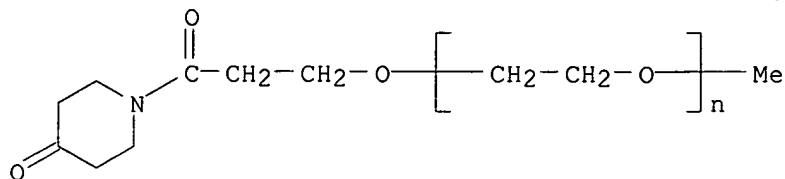
conjugates with Factor IX

RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polymer-Factor IX moiety conjugates)

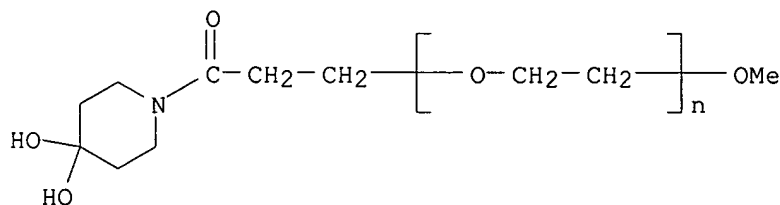
RN 724773-69-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidinyloxy)propoxy]- (9CI) (CA INDEX NAME)



RN 724773-70-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyloxy)propoxy]- ω -methoxy- (9CI) (CA INDEX NAME)



L31 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:740185 HCAPLUS

DN 141:248692

ED Entered STN: 10 Sep 2004

TI Water soluble polymer-factor VIII conjugates for treatment of hemophilia A

IN Bossard, Mary J.; Bentley, Michael D.

PA **Nektar Therapeutics Al, Corporation, USA**

SO PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K0047-48

CC 63-3 (Pharmaceuticals)

Section cross-reference(s): 1

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004075923	A2	20040910	WO 2004-US6034	20040226
	WO 2004075923	A3	20050224		

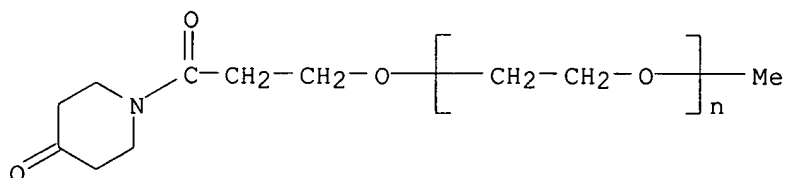
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AU 2004215912	A1	20040910	AU 2004-215912	20040226
CA 2517369	AA	20040910	CA 2004-2517369	20040226
US 2004235734	A1	20041125	US 2004-789956	20040226
EP 1596887	A2	20051123	EP 2004-715165	20040226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
BR 2004007882	A	20060301	BR 2004-7882	20040226
CN 1767857	A	20060503	CN 2004-80008422	20040226
PRAI US 2003-450578P	P	20030226		
WO 2004-US6034	A	20040226		

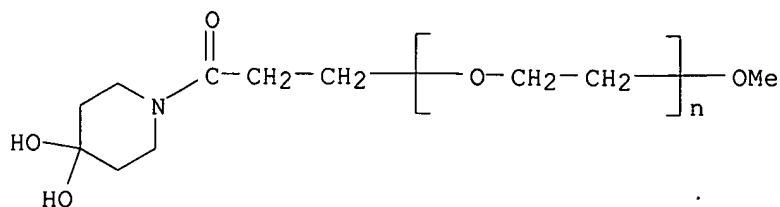
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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	ECLA	A61K047/48H4P
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	IPCR	A61K0047-48 [I,A]; A61K0047-48 [I,C*]
CA 2517369	IPCI	A61K0047-48 [ICM,7]
	ECLA	A61K047/48H4P
US 2004235734	IPCI	A61K0038-38 [ICM,7]
	IPCR	A61K0047-48 [I,A]; A61K0047-48 [I,C*]
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	ECLA	A61K047/48H4P
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	IPCR	A61K0047-48 [I,A]; A61K0047-48 [I,C*]
	ECLA	A61K047/48H4P
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	IPCR	A61K0047-48 [I,C*]; A61K0047-48 [I,A]
CN 1767857	IPCI	A61K0047-48 [I,A]
AB	Conjugates of a Factor VIII moiety and one or more water-soluble polymers are provided. Typically, the water-soluble polymer is poly(ethylene glycol) or a derivative thereof. Also provided are compns. comprising the conjugates, methods of making the conjugates, and methods of administering compns. comprising the conjugates to a patient for treatment of hemophilia A. Thus, PEGylated B domain-deleted Factor VIII was prepared by reaction of Factor VIII deletion mutant with 20K mPEG-succinimidyl propionate or other PEGylation reagents. Mono-, di- and tri-PEGylated conjugates were formed which were analyzed and purified by size exclusion chromatog. These conjugates were all bioactive.	
ST	factor VIII PEG conjugate synthesis hemophilia treatment	
IT	Hemophilia (A; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)	
IT	Polyoxyalkylenes, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (conjugates; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)	
IT	Polyamines RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (polyethylene-, N-acyl, conjugates; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)	
IT	Amide group Disulfide group (polymer joined to factor VII by; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)	
IT	Thioethers RL: MSC (Miscellaneous) (polymer-factor VII linkage containing; water soluble polymer-factor VIII	

- conjugates for treatment of hemophilia A)
- IT Amines, miscellaneous
RL: MSC (Miscellaneous)
(secondary, polymer-factor VII linkage containing; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT Human
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT Polyoxyalkylenes, biological studies
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT 463-77-4, Carbamic acid, miscellaneous
RL: MSC (Miscellaneous)
(polymer-factor VII linkage containing; water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT 9001-27-8DP, Blood-coagulation factor VIII, conjugates 25322-68-3DP, PEG, conjugates 72175-66-7DP, Blood-coagulation factor VIIIA, conjugates 109319-16-6DP, Blood-coagulation factor VIII, conjugates 113189-02-9DP, Blood-coagulation factor VIII, conjugates
RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT 99126-64-4 174569-25-6 187848-51-7 259674-05-0 346702-34-9
724773-69-7 724773-70-0 750635-90-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT 9002-89-5D, PVA, conjugates 9003-39-8D, PVP, conjugates 28902-82-1D, Poly(acryloylmorpholine), conjugates
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- IT **724773-69-7 724773-70-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)
- RN 724773-69-7 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidinyloxy)propoxy]- (9CI) (CA INDEX NAME)



- RN 724773-70-0 HCAPLUS
CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyloxy)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



L31 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:589444 HCAPLUS
 DN 141:128868
 ED Entered STN: 23 Jul 2004
 TI Polymeric reagents comprising a ketone or a related functional group
 IN **McManus, Samuel P.; Kozlowski, Antoni; Shen, Xiaoming; Cook, Daniel C.**
 PA **Nektar Therapeutics Al, Corporation, USA**
 SO PCT Int. Appl., 183 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM A61K0047-48
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 35

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004060406	A2	20040722	WO 2003-US41743	20031231 <--
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	RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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	AU 2003303519	A1	20040729	AU 2003-303519	20031231 <--
	US 2005031576	A1	20050210	US 2003-751009	20031231 <--
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	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
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PRAI	US 2002-437325P	P	20021231	<--	
	WO 2003-US41743	W	20031231	<--	

CLASS

PATENT NO..	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2004060406	ICM	A61K0047-48
	IPCI	A61K0047-48 [ICM,7]
	IPCR	A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C08G0065-00 [I,C*]; C08G0065-329 [I,A]; C08G0065-331 [I,A]; C08G0065-334 [I,A]
	ECLA	A61K047/48H4P; C08G065/329; C08G065/331; C08G065/334D
CA 2509248	IPCI	A61K0047-48 [ICM,7]; C08H0001-00 [ICS,7]; C08G0065-26

[ICS,7]; C08G0065-32 [ICS,7]; C08G0065-329 [ICS,7];
C08G0065-331 [ICS,7]; C08G0065-333 [ICS,7];
C08G0065-334 [ICS,7]; C08G0065-00 [ICS,7,C*]
IPCR A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C08G0065-00
[I,C*]; C08G0065-329 [I,A]; C08G0065-331 [I,A];
C08G0065-334 [I,A]
ECLA A61K047/48H4P; C08G065/329; C08G065/331; C08G065/334D
AU 2003303519 IPCI A61K0047-48 [ICM,7]
US 2005031576 IPCI A61K0031-785 [ICM,7]; A61K0031-74 [ICM,7,C*];
C08G0059-14 [ICS,7]; C08G0059-00 [ICS,7,C*]
IPCR A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C08G0065-00
[I,C*]; C08G0065-329 [I,A]; C08G0065-331 [I,A];
C08G0065-334 [I,A]
NCL 424/078.270
ECLA A61K047/48H4P; C08G065/329; C08G065/331; C08G065/334D
EP 1581260 IPCI A61K0047-48 [ICM,7]
IPCR A61K0047-48 [I,A]; A61K0047-48 [I,C*]; C08G0065-00
[I,C*]; C08G0065-329 [I,A]; C08G0065-331 [I,A];
C08G0065-334 [I,A]
ECLA A61K047/48H4P; C08G065/329; C08G065/331; C08G065/334D
CN 1744918 IPCI A61K0047-48 [I,A]; C08G0065-26 [I,A]; C08G0065-333
[I,A]; C08G0065-329 [I,A]; C08G0065-32 [I,A];
C08H0001-00 [I,A]; C08G0065-331 [I,A]; C08G0065-334
[I,A]; C08G0065-00 [I,C*]
ECLA A61K047/48H4P; C08G065/329; C08G065/331; C08G065/334D
AB Polymeric reagents comprising a polymer attached, either directly or
through one or more atoms to a ketone or a related functional group such
as ketone hydrate, thione, monothiohydrate, dithiohydrate, hemiketal,
monothiohemiketal, dithiohemiketal, ketal, or dithioketal are provided.
The polymeric reagents are useful for, among other things, forming
polymer-active agent conjugates. Related methods, compns., prepns., and
so forth are also provided. For example, to 3.0 mg of lysozyme dissolved
in 1 mL of 20 mM sodium phosphate buffer (pH 5.0) was added 21 mg of
PEG- α -hydroxy- ω -2-propanone di-Et ketal (preparation given). After
15 min, 0.159 M solution of NaCNBH₃ was added and the solution was stirred for
20 h at room temperature Anal. of the reaction mixture by SDS-PAGE showed that
PEGylated lysozyme was formed.
ST polymer reagent functional group prepn drug conjugate
IT Peptides, biological studies
Proteins
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(conjugates, with functional group-containing polymers; preparation of
polymeric
reagents comprising ketone or related functional group for drug
conjugation)
IT Polymers, preparation
Polyoxyalkylenes, preparation
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(functional group-containing; preparation of polymeric reagents comprising
ketone or related functional group for drug conjugation)
IT Drug delivery systems
Functional groups
Human
(preparation of polymeric reagents comprising ketone or related functional
group for drug conjugation)
IT Interferons
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)

(α , PEGylated; preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT Interferons
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (β , PEGylated; preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT 14690-00-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (ethoxylation of; preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT 524957-44-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and methylation of; preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT 57-55-6, 1,2-Propanediol, reactions 78-96-6, 1-Amino-2-propanol 97-64-3, Ethyl lactate 122-51-0, Triethyl orthoformate 123-76-2, Levulinic acid 617-35-6, Ethyl pyruvate 9002-68-0, FSH 9002-72-6, Growth hormone 9004-74-4, MPEG 11096-26-7, Erythropoietin 37698-53-6, Amphotericin B hydrochloride 41979-39-9, 4-Piperidone hydrochloride 61798-04-7, 1,3-Diaminoacetone dihydrochloride 80506-64-5 81927-55-1, Benzyl 2,2,2-trichloroacetimidate 92451-01-9 143011-72-7, GCSF 159540-80-4 174569-25-6
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT 2040-44-0P 7476-20-2P 70448-03-2P, 2-Benzyloxy-1-propanol 84293-53-8P 104318-84-5P 161927-25-9P 161927-26-0P 175172-61-9P 384378-74-9P 524957-45-7P 524957-46-8P 724773-68-6P **724773-69-7P 724773-70-0P 724773-71-1P 724773-72-2P** 724773-73-3P 724773-74-4P 724773-75-5P 724773-76-6P 724773-77-7P 724773-78-8P 724773-79-9P 724773-80-2P 724773-81-3P 724773-82-4P 724773-83-5P 724773-84-6P 724773-85-7P 724773-86-8P 724773-88-0P 724773-90-4P 724773-91-5P 724773-92-6P 724773-93-7P **724773-94-8P 724773-95-9P 724773-96-0P 724773-97-1P** 724773-98-2P 724773-99-3P 724774-00-9P 724774-01-0P 724774-02-1P 724774-03-2P 724774-04-3P 724774-05-4P 724774-06-5P 724774-07-6P 724774-08-7P 724774-09-8P 724774-10-1P 724774-11-2P 724774-12-3P 724774-13-4P 724774-14-5P 724774-15-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT 1397-89-3DP, Amphotericin B, drug conjugates 9001-63-2DP, Lysozyme, conjugates with PEG derivative 9002-68-0DP, FSH, conjugates with PEG derivative 9002-72-6DP, Growth hormone, conjugates with PEG derivative 11096-26-7DP, Erythropoietin, conjugates with PEG derivative 143011-72-7DP, GCSF, conjugates with PEG derivative 384378-74-9DP, drug conjugates **724773-69-7DP**, conjugates with lysozyme 724773-71-1DP, conjugates with lysozyme 724773-72-2DP, conjugates with lysozyme 724773-73-3DP, conjugates with lysozyme 724773-75-5DP, drug conjugates 724773-76-6DP, drug conjugates 724773-77-7DP, drug conjugates
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

IT **724773-69-7P 724773-70-0P 724773-94-8P**

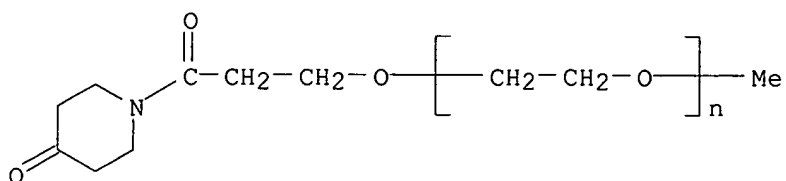
724773-95-9P 724773-96-0P 724773-97-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

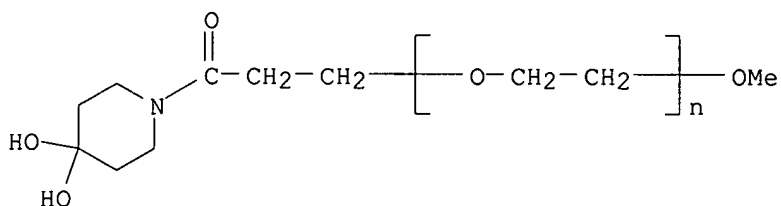
RN 724773-69-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)



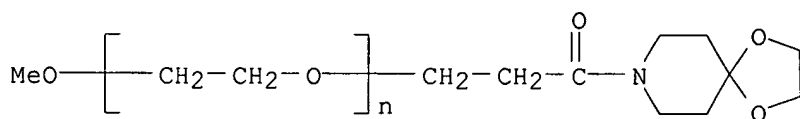
RN 724773-70-0 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



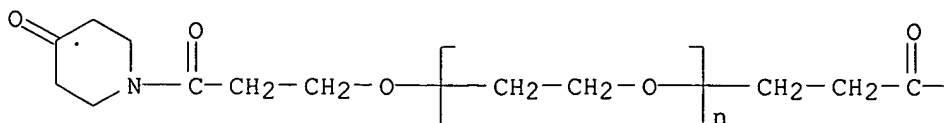
RN 724773-94-8 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



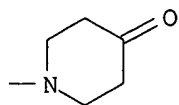
RN 724773-95-9 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -[3-oxo-3-(4-oxo-1-piperidinyl)propyl]- ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)



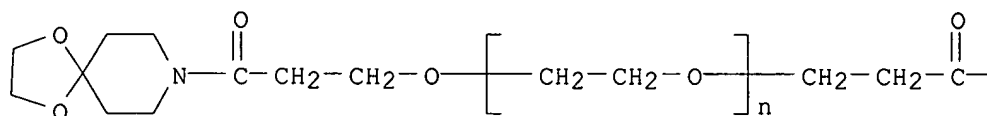
PAGE 1-A

PAGE 1-B



RN 724773-96-0 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

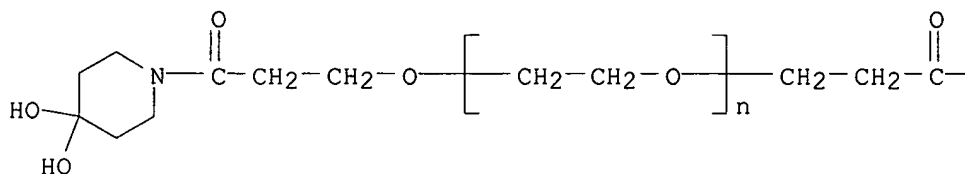


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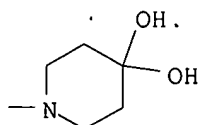


RN 724773-97-1 HCAPLUS
 CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

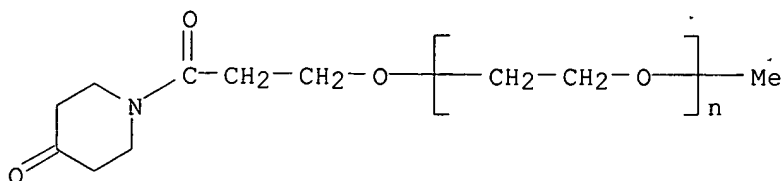


IT 724773-69-7DP, conjugates with lysozyme
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

RN 724773-69-7 HCAPLUS

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidiny)propoxy]- (9CI) (CA INDEX NAME)



=> fil uspatful

FILE 'USPATFULL' ENTERED AT 15:34:03 ON 14 JUN 2006

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FILE COVERS 1971 TO PATENT PUBLICATION DATE: 13 Jun 2006 (20060613/PD)

FILE LAST UPDATED: 13 Jun 2006 (20060613/ED)

HIGHEST GRANTED PATENT NUMBER: US7062785

HIGHEST APPLICATION PUBLICATION NUMBER: US2006123525

CA INDEXING IS CURRENT THROUGH 13 Jun 2006 (20060613/UPCA)

ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 13 Jun 2006 (20060613/PD)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2006

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2006

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L32 ANSWER 1 OF 3 USPATFULL on STN

AN 2006:61133 USPATFULL

TI Polymer factor IX moiety conjugates

IN Bossard, Mary J., Madison, AL, UNITED STATES

Stephenson, Gayle, Madison, AL, UNITED STATES

PI US 2006052302 A1 20060309

AI US 2005-172459 A1 20050630 (11)

PRAI US 2004-584505P 20040630 (60)

DT Utility

FS APPLICATION

LREP NEKTAR THERAPEUTICS, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070, US

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 6 Drawing Page(s)

LN.CNT 2534

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

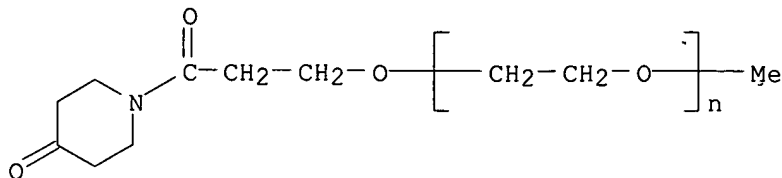
AB Conjugates of a Factor IX moiety and one or more water-soluble polymers are provided. Typically, the water-soluble polymer is poly(ethylene glycol) or a derivative thereof. Also provided (among other things) are compositions comprising the conjugates, methods of making the conjugates, and methods of administering to a patient compositions comprising the conjugates.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

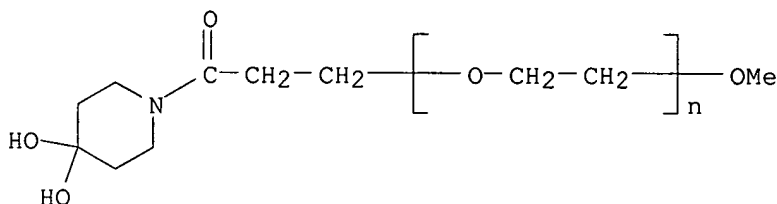
IT 724773-69-7DP, conjugates with Factor IX 724773-70-0DP, conjugates with Factor IX

(preparation of polymer-Factor IX moiety conjugates)

RN 724773-69-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidiny)propoxy]- (9CI) (CA INDEX NAME)

RN 724773-70-0 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidiny)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)

L32 ANSWER 2 OF 3 USPATFULL on STN

AN 2005:36902 USPATFULL

TI Polymeric reagents comprising a ketone or a related functional group

IN McManus, Samuel P., Brevard, NC, UNITED STATES

Kozlowski, Antoni, Huntsville, AL, UNITED STATES

Shen, Xiaoming, Madison, AL, UNITED STATES

Cook, Daniel C., Harvest, AL, UNITED STATES

PI US 2005031576 A1 20050210

AI US 2003-751009 A1 20031231 (10)

PRAI US 2002-437325P 20021231 (60)

DT Utility

FS APPLICATION

LREP NEKTAR THERAPEUTICS, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070

CLMN Number of Claims: 40

ECL Exemplary Claim: CLM-01-34

DRWN 3 Drawing Page(s)

LN.CNT 3974

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Polymeric reagents comprising a polymer attached, either directly or through one or more atoms to a ketone or a related functional group such as ketone hydrate, thione, monothiohydrate, dithiohydrate, hemiketal, monothiohemiketal, dithiohemiketal, ketal, or dithioketal are provided. The polymeric reagents are useful for, among other things, forming polymer-active agent conjugates. Related methods, compositions, preparations, and so forth are also provided.

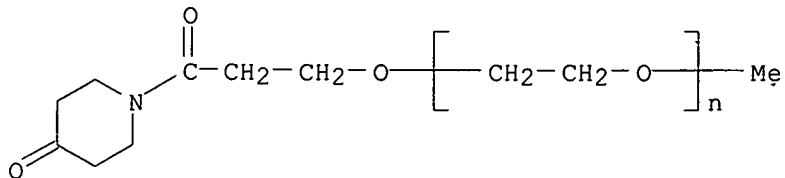
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 724773-69-7P 724773-70-0P 724773-94-8P

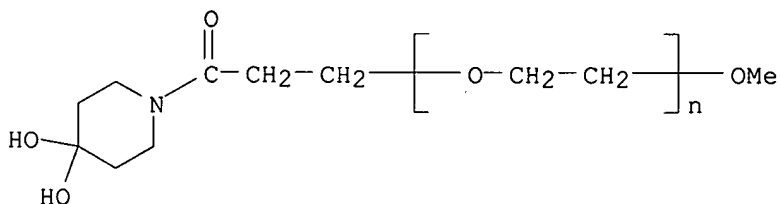
724773-95-9P 724773-96-0P 724773-97-1P

(preparation of polymeric reagents comprising ketone or related functional

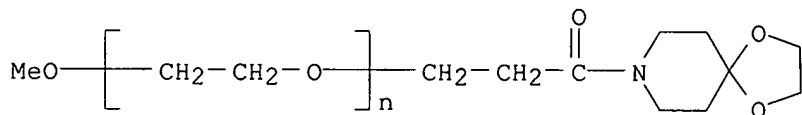
group for drug conjugation)
 RN 724773-69-7 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)



RN 724773-70-0 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)

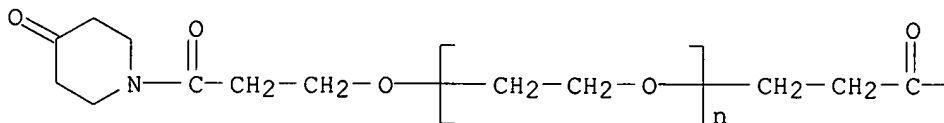


RN 724773-94-8 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)

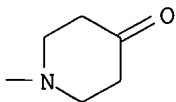


RN 724773-95-9 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-oxo-3-(4-oxo-1-piperidinyl)propyl]- ω -[3-oxo-3-(4-oxo-1-piperidinyl)propoxy]- (9CI) (CA INDEX NAME)

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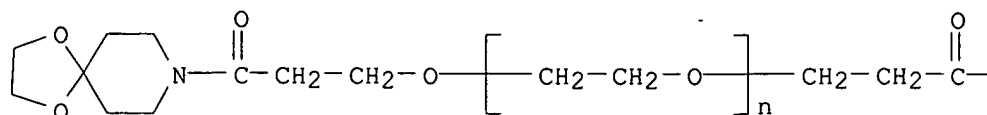


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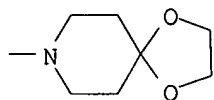


RN 724773-96-0 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropyl]- ω -[3-(1,4-dioxo-8-azaspiro[4.5]dec-8-yl)-3-oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

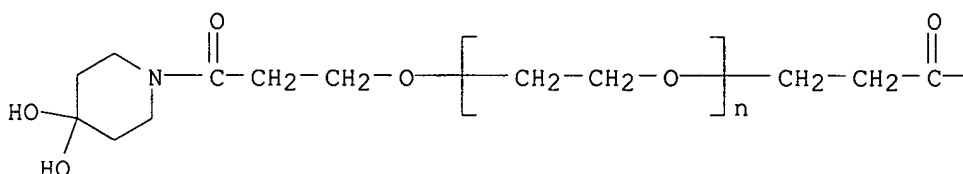


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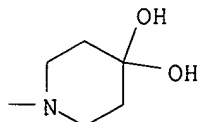


RN 724773-97-1 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidiny1)-3-oxopropyl]- ω -[3-(4,4-dihydroxy-1-piperidiny1)-3-oxopropoxy]- (9CI) (CA INDEX NAME)

PAGE 1-A

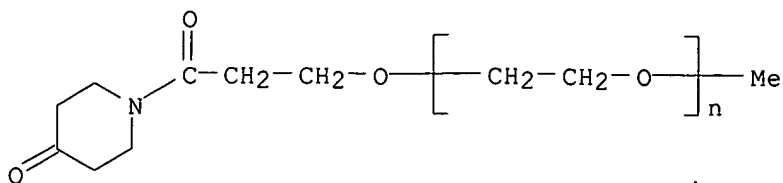


PAGE 1-B



IT 724773-69-7DP, conjugates with lysozyme
 (preparation of polymeric reagents comprising ketone or related functional group for drug conjugation)

RN 724773-69-7 USPATFULL
 CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -[3-oxo-3-(4-oxo-1-piperidiny1)propoxy]- (9CI) (CA INDEX NAME)



L32 ANSWER 3 OF 3 USPATFULL on STN

AN 2004:299865 USPATFULL

TI ~~Polymer-factor VIII moiety conjugates~~

IN Bossard, Mary J., Madison, AL, UNITED STATES

Bentley, Michael D., Huntsville, AL, UNITED STATES

PI US 2004235734 A1 20041125

AI US 2004-789956 A1 20040226 (10)

PRAI US 2003-450578P 20030226 (60)

DT Utility

FS APPLICATION

LREP ~~NEKTAR THERAPEUTICS~~, 150 INDUSTRIAL ROAD, SAN CARLOS, CA, 94070

CLMN Number of Claims: 61

ECL Exemplary Claim: 1

DRWN 5 Drawing Page(s)

LN.CNT 2640

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Conjugates of a Factor VIII moiety and one or more water-soluble polymers are provided. Typically, the water-soluble polymer is poly(ethylene glycol) or a derivative thereof. Also provided are compositions comprising the conjugates, methods of making the conjugates, and methods of administering compositions comprising the conjugates to a patient.

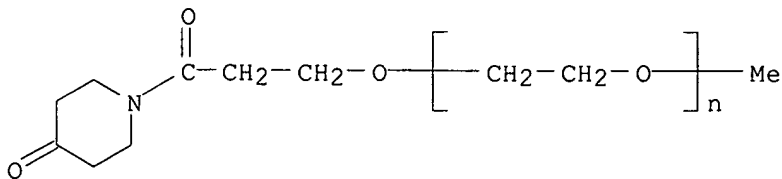
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 724773-69-7 724773-70-0

(water soluble polymer-factor VIII conjugates for treatment of hemophilia A)

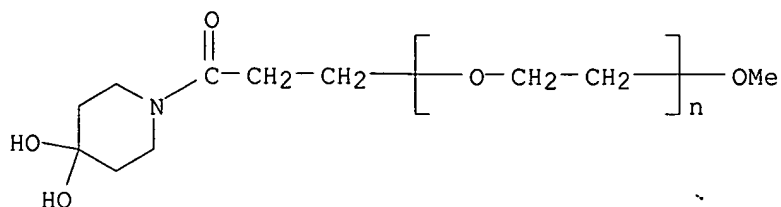
RN 724773-69-7 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -methyl- ω -(3-oxo-3-(4-oxo-1-piperidinyl)propoxy)- (9CI) (CA INDEX NAME)



RN 724773-70-0 USPATFULL

CN Poly(oxy-1,2-ethanediyl), α -[3-(4,4-dihydroxy-1-piperidinyl)-3-oxopropyl]- ω -methoxy- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 15:14:45 ON 14 JUN 2006)
SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:14:58 ON 14 JUN 2006

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L1      1 S US20050031576/PN OR (US2003-751009# OR WO2003-US41743 OR US20
        E MCMANUS/AU
        E MCMANUS S/AU
L2      136 S E5-E9
        E MC MANUS S/AU
        E KOZLOWSKI/AU
L3      161 S E4-E7,E19-E22
        E SHEN/AU
L4      1 S E3
        E SHEN X/AU
L5      119 S E3,E14
        E SHEN XIAO/AU
L6      19 S E3,E22,E23
        E SHEN XIAOMING/AU
L7      54 S E2,E3
        E COOK D/AU
L8      147 S E3,E9,E10
        E COOK DAN/AU
L9      15 S E3,E6,E8
        E NEKTAR/PA,CS
L10     77 S E3-E35
        SEL RN L1
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FILE 'REGISTRY' ENTERED AT 15:19:02 ON 14 JUN 2006

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L11     80 S E1-E80
L12     7 S L11 AND 46.156.1/RID
L13     1 S L12 AND "(C2H4O)NC9H15NO3"/MF
L14     394 S C2H4O AND 46.156.1/RID
L15     60 S L14 AND 1/NR
L16     45 S L15 NOT TETRAMETHYL
L17     44 S L16 NOT L13
L18     1 S L17 AND "(C2H4O)NC9H17NO4"/MF
L19     2 S L13,L18
L20     334 S L14 NOT L15
L21     90 S L20 NOT (TETRAMETHYL OR PENTAMETHYL)
L22     1 S L21 AND "(C2H4O)NC16H28N2O7"/MF
L23     2 S L12 AND 2/NR
L24     4 S L19,L22,L23
L25     3 S L12 NOT L24
L26     3 S L11 AND OCOC2-NC5/ES
L27     2 S L26 NOT "(C2H4O)N(C2H4O)NC17H29N3O7"/MF
L28     6 S L24,L27
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jan delaval - 14 june 2006

L29 FILE 'HCAOLD' ENTERED AT 15:32:52 ON 14 JUN 2006
 0 S L28

L30 FILE 'HCAPLUS' ENTERED AT 15:32:54 ON 14 JUN 2006
 3 S L28

L31 3 S L30 AND L1-L10

L32 FILE 'USPATFULL' ENTERED AT 15:33:13 ON 14 JUN 2006
 3 S L28

FILE 'REGISTRY' ENTERED AT 15:33:33 ON 14 JUN 2006

FILE 'HCAPLUS' ENTERED AT 15:33:51 ON 14 JUN 2006

FILE 'USPATFULL' ENTERED AT 15:34:03 ON 14 JUN 2006

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